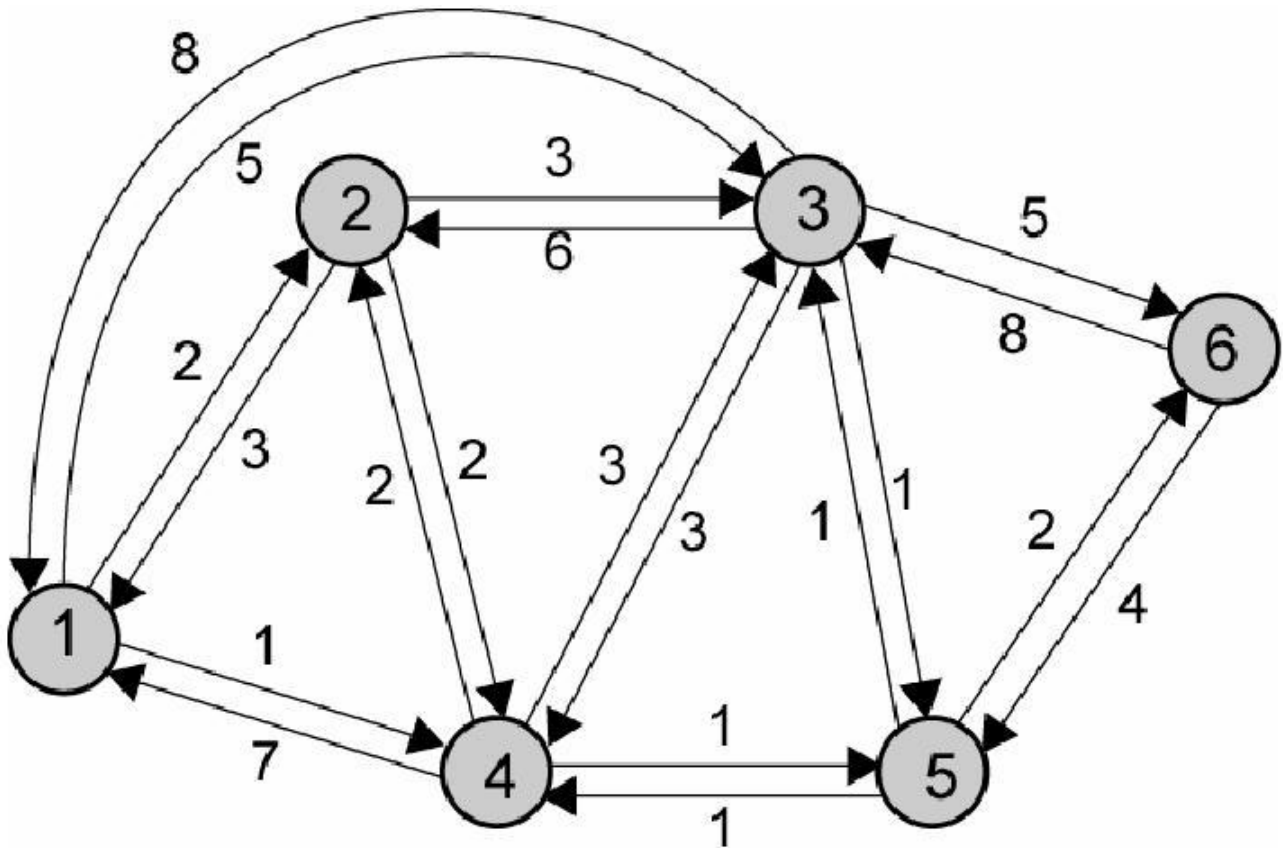


Adaptive Routing

1. Given a network in following figure, obtain shortest path routes from node 6 to all the other nodes in the network. Use Dijkstra and Bellman-Ford algorithms.



2. Suppose a routing algorithm identifies paths that are “best” in the following sense: (1) minimum number of hops, (2) minimum delay, or (3) maximum available bandwidth. Identify the conditions under which the paths produced by the different criteria are the same? Are different?

3. It was shown that flooding can be used to determine the minimum-hop route. Can it be used to determine the minimum-delay route?